		BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
LLL	iii	BBB BBB	RRR RRR	TTT	
	!!!		RRR RRR	III	LLL
IIIIIIIIIIIIIII	111111111	BBBBBBBBBBBB	RRR RRR	III	rrrrrrrrrrr
LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	111111111	888888888888	RRR RRR	III	LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL
LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	111111111	BBBBBBBBBBBB	RRR RRR	TTT	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

LI

000000 00 00 00 00		\$	00000000 00000000000000000000000000000	00000000 00000000000000000000000000000	88888888 88 88 88 88 88	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
		\$					

1-

.....

22222222223333333333344444444444

**

MODULE OTS\$SCCB_DATA (= '1-002'

! Data base for LUB/ISB/RAB ! File: OTSCCBDAT.B32 Edit: JBS1002

BEGIN

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FACILITY: language support library

ABSTRACT:

This module holds the OWN storage for manipulating the CCB (the LUB/ISB/RAB). The data in this module is referenced by OTS\$\$CCB and FOR\$\$CB.

ENVIRONMENT: User mode, AST level or not or mixed

AUTHOR: John Sauter, 16-AUG-1979

MODIFIED BY:

1-001 - Original, from OTS\$\$CCB version 1-047. JBS 16-AUG-1979
1-002 - Initialize OTS\$\$L_CUR_LUN and OTS\$\$L_LVL_CTR at link time, since FORTRAN doesn't call any initialization code.

JBS 14-JAN-1980

! <BLF/PAGE>

```
VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRCJOTSCCBDAT.B32:1
SWITCHES:
                            SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
                               LINKAGES:
                                       NONE
                               TABLE OF CONTENTS:
                                       NONE
                               INCLUDE FILES:
                            REQUIRE 'RTLML:OTSISB';
                                                                                             ! get length of ISB
                            REQUIRE 'RTLML:OTSLUB':
                                                                                             ! get length of LUB
                            REQUIRE 'RTLIN:RTLPSECT';
                                                                                             ! Define DECLARE_PSECTs macro
                            REQUIRE 'RTLIN:OTSCCBREQ';
                                                                                             ! Define interface to OTS$PUSH_CCB
                            LIBRARY 'RTLSTARLE';
                                                                                             ! STARLET library for macros and symbols
                              MACROS:
                                       NONE
                              EQUATED SYMBOLS:
                                       NONE
                              PSECT DECLARATIONS:
                            DECLARE_PSECTS (OTS);
                                                                                             ! declare PSECTs for OTS$ facility
                              GLOBAL STORAGE:
                                 OTS$$A_CUR_LUB : INITIAL (0),
                                                                                             ! Contains the address of the current I/O
                              Bit 0 of the following longword is zero if the queue headers have not
                              yet been set up.
                                  OTS$$V_CCB_INIT : VOLATILE INITIAL (0),
                              The following quadwords constitute queue headers, one for each LUN. Each queue will normally either be empty (meaning that no LUB is allocated) or contain one item, the LUB. The field LUB$Q QUEUE is used for the queue linkage. Under certain circumstances a second LUB may be placed in the queue and then quickly removed.
108
```

```
OTSSSCCB_DATA
                                                                                                        16-Sep-1984 01:24:18
14-Sep-1984 12:39:38
                                                                                                                                               VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]OTSCCBDAT.B32;1
                         OTS$$AA_LUB_TAB : VOLATILE OTS$$LUB_TAB_ST !
[-LOB$K_ILUN_MIN + LUB$K_LUN_MAX + T, LUB$K_ILUN_MIN],
     112
113
114
115
116
117
118
                                         Each bit of the following BITVECTOR corresponds to a LUN. The bit is set if there is any I/O activity outstanding for the LUN. The bit must be kept here rather than in the LUB because there can be I/O activity outstanding even before the LUB is allocated.
                                             OTS$$V_IOINPROG : VOLATILE BITVECTOR ! [(T-LUB$K_ILUN_MIN + LUB$K_LUN_MAX + %BPVAL)/%BPVAL)*%BPVAL],
    12123456789012345678901244467890
                                         The following cell contains the logical unit number of the current unit. It is used in place of OTS$$AA_CUR_LUB when pushing to avoid a problem with removing the LUB from the LUB table prior to deallocating it. When it contains a value one greater than the max
                                          permitted value then there is no current LUB.
                                             OTS$$L_CUR_LUN : INITIAL (LUB$K_LUN_MAX + 1),
                                          The following cell acts as a level counter. For efficiency the LUN pushing and popping routines are not called at the top level
                                          because, first, they would have nothing useful to do and, second, the top level is used much more frequently than the lower levels.
                                             OTS$$L_LVL_CTR : INITIAL (-1),
                                          The following vector of bits is used to record ownership of each LUN.
                                          If the bit corresponding to a particular language is set, the language
                                         owns the LUN.
                                             OTS$$V_LUN_OWNR : BLOCKVECTOR [-LUB$K_ILUN_MIN + LUB$K_LUN_MAX + 1,
                                                          (([UB$K_LANG_MAX + %BPUNIT)/%BPUNIT), BYTE];
                                         EXTERNAL REFERENCES:
                                                   NONE
                                      END
                                                                                                                    ! End of module OTS$$CCB_DATA
                                      ELUDOM
                                                                                                                        .TITLE
                                                                                                                                    OTS$$CCB_DATA
                                                                                                                        . IDENT
                                                                                                                                    11-0021
                                                                                                                        .PSECT _OTS$DATA,NOEXE, PIC,2
                                                                                 00000000
                                                                                                 00000 OTS$$A_CUR_LUB::
                                                                                 00000000
                                                                                                 00004 OTS$$V_CCB_INIT::
                                                                                                                         LONG
                                                                                                 00008 0TS$$AA_LUB_TAB::
                                                                                                 00408 OTS$$V_IOINPROG::
                                                                                                                        .BLKB
```

OT 1-

OTSSSCCB_DATA VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]OTSCCBDAT.B32;1 Page (2) 00000078 PSECT SUMMARY Name Bytes Attributes _OTS\$DATA 1184 NOVEC, WRT, RD , NOEXE, NOSHR, LCL, REL, CON, PIC, ALIGN(2) Library Statistics ----- Symbols -----Processing Pages File Total Loaded Percent Mapped Time _\$255\$DUA28:[SYSLIB]STARLET.L32;1 9776 581 00:00.8 COMMAND QUALIFIERS BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$:OTSCCBDAT/OBJ=OBJ\$:OTSCCBDAT MSRC\$:OTSCCBDAT/UPDATE=(ENH\$:OTSCCBDAT Size: 0 code + 1184 data bytes 00:04.3 Run Time: Elapsed Time: Lines/CPU Min: Lexemes/CPU-Min: 63190 Memory Used: 86 pages Compilation Complete

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